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9 September 1966

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[REDACTED]
Post Office Box 8031
Southwest Station
Washington, D. C. 20024

Subject: [REDACTED] Project 552A Cabinets,
Electronics and Encoder Installation
on Model 552A Machines, [REDACTED]
[REDACTED]

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Gentlemen:

In accordance with the meeting held at your facility on 19 August 1966, in which you requested quotations with respect to digitizing the delivered 552A machines and/or adding interferometric measuring capabilities to the 552A machines, our initial studies indicate that, from a practical view-point and from a review of the economics of the modifications, our proposed approach is to add digitizing capabilities to the existing equipment on a minimum cost basis and to then supply as a separate item, a calibration system which involves fixturing and a 2-axes laser interferometer for the calibration of all your 552 machines. The calibration system will be so designed with the proper fixtures that it will be mountable on both the 552 machine and the 552A machines. The proposal for the calibration system is presently in preparation and will be submitted to you within two (2) weeks.

Below is described the modifications we are proposing to make to the two (2) 552A machines at your facility with the appropriate cost quotation.

1) Purchase and modify 50 inch high Emcor cabinet on casters to house four (4) CMC counter/display units, one (1) CMC synchronizer and one (1) [REDACTED] switch panel. Two (2) filler panels will be provided: one to space left and right X-Y counter/display units and the other to enclose unused rack area. A hinged rear door will be installed to


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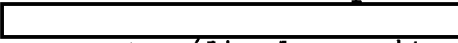
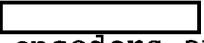

Page 2

permit convenient access to equipment cables and will contain two (2) fans for improved cooling of electronics.

2) Design, fabricate and install special sloped front cabinet for  control panel similar to 552 installation.

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3) Design, fabricate and install arm for sloped front cabinet on side of Emcor cabinet, arm and sloped front cabinet will be designed so these will be about 15 degree aximuth adjustment available to suit operator's comfort, similar to 552 installation.





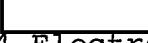

4) Design, fabricate, purchase and install panel to contain necessary connectors and 
 15-EL-44 modules to mate counter/display units to encoders and  switch panel.

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5) Fabricate and install cables needed to interconnect encoder and elements of the readout system.

6) Purchase and install four (4)  Model 2826C Reversible Counters, (1)  Model 2827B Synchronizer, one (1)  Model 2825B Control Panel, four (4) 
27-625Z  Encoders, and four (4) 
15-EL-44 Electronic Modules.

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The cost estimates for the above described tasks are attached hereto. It should be pointed out that both estimates are based on accomplishing the modifications to the machines at your facility rather than returning the machines for modifications at our plant. The cost estimate sheets are submitted for accomplishing one (1) machine and accomplishing two machines at the same time. If two machines are modified but with a time difference at installation the cost of a single machine would have to be used for each of the equipments.

This proposal is submitted on the basis of a firm fixed price contract with progress payments in the amount of 75%. Upon completion of the modification and installation acceptance, full payment within 30 days is desired. This proposal is valid for 60 days from the date of this letter. It is expected that the contract will take five (5) months to complete after authority to proceed.

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9 September 1966

Page 3

If you desire any additional information, or any
questions answered of a technical nature, please contact
 all other matters should be referred
to the undersigned.

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Very truly yours,



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LHB:rf

Encl: (2) Cost Sheets 1 & 2

Executive Vice President

cc:  w/enclosure

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